Claims

1. A compound of the formula (I) or a salt thereof,

$$\begin{array}{c|c}
R^1 & Y \\
\hline
N & N \\
R^2 & R^4
\end{array}$$
(I)

where the symbols and indices are as defined below:

X is =CH- or =N-;

Y is =0 or =S:

10 n is 0 or 1;

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R¹ is (C_1-C_6) -alkyl, (C_1-C_6) -haloalkyl, -S(halogen)₅ or halogen, where one or two CH₂ groups may be replaced by -O- or -S- or -N(C₁-C₆)-alkyl, with the proviso that heteroatoms may not be adjacent:

- R², R³ independently of one another are hydrogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl or halogen, where one or two CH₂ groups may be replaced by -O- or -S- or -N(C₁-C₆)-alkyl, with the proviso that heteroatoms may not be adjacent;
 - Is hydrogen, (C_1-C_{10}) -alkyl, (C_3-C_{10}) -alkenyl, (C_3-C_{10}) -alkynyl, (C_3-C_{10}) -cycloalkyl, (C_4-C_8) -cycloalkenyl, (C_8-C_{10}) -cycloalkynyl, (C_6-C_{14}) -aryl, (C_3-C_{10}) -heterocyclyl or R^6 , where the radicals mentioned may optionally be mono- or polysubstituted;
 - is hydrogen, (C_1-C_{10}) -alkyl, (C_3-C_{10}) -alkenyl, (C_3-C_{10}) -alkynyl, (C_3-C_8) -cycloalkyl, (C_4-C_8) -cycloalkenyl, (C_8-C_{10}) -cycloalkynyl, (C_6-C_{14}) -aryl, (C_3-C_{10}) -heterocyclyl or \mathbb{R}^7 , where the radicals mentioned may optionally be mono- or polysubstituted;

 R^6 , R^7 independently of one another are $-C(W)R^8$, $-C(W)OR^8$, $-C(W)SR^8$, $-C(W)NR^8_2$, $-C(W)NR^8_2$, $-C(W)NR^8_2$, $-C(W)NR^8_2$, $-C(W)NR^8_2$, $-SO_2OR^8$, $-S(O)R^8$, $-S(O)_2R^8$, $-PWR^8_2$ or $-PW(OR^8)_2$;

W is =0, =S, =NOR 8 or =NNR 8 2;

- the radicals R⁸ are identical or different and are hydrogen, (C₁-C₆)-alkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-alkynyl, (C₃-C₈)-cycloalkyl, (C₄-C₈)-cycloalkenyl, (C₃-C₈)-cycloalkyl-(C₁-C₄)-alkyl, (C₄-C₈)-cycloalkenyl-(C₁-C₄)-alkyl, (C₃-C₈)-cycloalkyl-(C₂-C₄)-alkenyl, (C₄-C₈)-cycloalkenyl-(C₂-C₄)-alkenyl, (C₁-C₆)-alkyl-(C₃-C₈)-cycloalkyl, (C₂-C₆)-alkenyl-(C₃-C₈)-cycloalkyl, (C₁-C₆)-alkyl-(C₄-C₈)-cycloalkenyl, (C₂-C₆)-alkynyl-(C₃-C₈)-cycloalkyl, (C₁-C₆)-alkyl-(C₄-C₈)-cycloalkenyl, (C₂-C₆)-alkenyl-(C₄-C₈)-cycloalkenyl, (C₆-C₁₄)-aryl, (C₃-C₁₀)-heterocyclyl, where the radicals mentioned may optionally be mono- or polysubstituted and two radicals R⁸ together optionally form a ring system;
 - with the proviso that at least one of the radicals R^4 or R^5 has one of the meanings defined for R^6 or R^7 and that, if R^5 is $-C(=O)R^a$, where R^a is (C_1-C_6) -alkyl or (C_6-C_{14}) -aryl and where the radicals mentioned may optionally be mono- or polysubstituted, R^4 is hydrogen or optionally mono- or polysubstituted (C_3-C_{10}) -alkenyl, (C_3-C_{10}) -alkynyl, (C_3-C_{10}) -cycloalkyl, (C_4-C_8) -cycloalkenyl, (C_8-C_{10}) -cycloalkynyl or R^6 .

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- 2. The compound of the formula (I) or a salt thereof as claimed in claim 1 where X is =CH-.
- 3. The compound of the formula (I) or a salt thereof as claimed in claim 1 where 25 Y is =0.
 - 4. The compound of the formula (I) or a salt thereof as claimed in claim 1 where n is 0.
- 30 5. The compound of the formula (I) or a salt thereof as claimed in claim 1 where R¹ is CF₃.

- 6. The compound of the formula (I) or a salt thereof as claimed in claim 1 where R² and R³ are hydrogen.
- 7. The compound of the formula (I) or a salt thereof as claimed in claim 1 where S R⁴ is hydrogen, (C₁-C₆)-alkyl, (C₁-C₆)-alkyl which is mono- or polysubstituted by F and/or CI or R⁶.
- The compound of the formula (I) or a salt thereof as claimed in claim 1 where R⁵ is (C₁-C₆)-alkyl, (C₃-C₆)-alkenyl, (C₃-C₆)-alkynyl, (C₃-C₈)-cycloalkyl, (C₆-C₁₄)-aryl or (C₃-C₁₀)-heterocyclyl having a total of one to three nitrogen, oxygen and/or sulfur ring atoms or very particularly preferably R⁷, where the radicals mentioned may optionally be mono- or polysubstituted.
- 9. The compound of the formula (I) or a salt thereof as claimed in claim 1 where R⁶ and R⁷ independently of one another are -C(W)R⁸, -C(W)OR⁸, -SO₂OR⁸, -S(O)R⁸, -S(O)₂R⁸, -PWR⁸₂ or -PW(OR⁸)₂, W is =O and the radicals R⁸ are identical or different and are (C₁-C₆)-alkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-alkynyl, (C₃-C₈)-cycloalkyl, (C₆-C₁₄)-aryl, (C₃-C₁₀)-heterocyclyl having a total of one to three nitrogen, oxygen and/or sulfur ring atoms, where the radicals mentioned may optionally be mono- or polysubstituted.
 - 10. The compound of the formula (I) or a salt thereof as claimed in claim 1 where the symbols and indices are as defined below:

X is =CH-:

25 Y is =0;

n is 0:

 R^1 is $-CF_3$:

R² and R³ are hydrogen;

 R^4 is hydrogen, $-C(W)R^8$, $-S(O)R^8$ or $-S(O)_2R^8$;

30 R^5 is (C_1-C_6) -alkyl, (C_3-C_6) -alkenyl, (C_3-C_6) -alkynyl, (C_3-C_8) -cycloalkyl, (C_6-C_{14}) -aryl, (C_3-C_{10}) -heterocyclyl having a total of one to three nitrogen.

oxygen and/or sulfur ring atoms, -C(W)R⁸, -S(O)R⁸ or -S(O)₂R⁸; where the radicals mentioned may optionally be mono- or polysubstituted.

- 11. The compound of the formula (I) or a salt thereof as claimed in claim 10 where the symbols and indices are as defined below:
- R⁴ is -C(W)R⁸ and in particular hydrogen;
- R^5 is $-C(W)R^8$, and

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the radicals R⁸ are identical or different and are hydrogen, (C₁-C₆)-alkyl,

 (C_2-C_6) -alkenyl, (C_2-C_6) -alkynyl, (C_3-C_8) -cycloalkyl, (C_6-C_{14}) -aryl,

- 10 (C₃-C₁₀)-heterocyclyl having a total of one to three nitrogen, oxygen and/or sulfur ring atoms, where the radicals mentioned may optionally be mono- or polysubstituted.
- 12. The compound of the formula (I) or a salt thereof as claimed in claim 1 where the substituents on the radicals R⁴, R⁵ and R⁸ are groups R⁹ which are as defined below:
 - the radicals R⁹ are identical or different and are R¹⁰, or two radicals R⁹ together with the atoms to which they are attached form a three- to eight-membered saturated or unsaturated ring system which is optionally substituted by one or more radicals R¹⁰ and which optionally contains heteroatoms, preferably O, N, S, SO and/or SO₂;

the radicals R¹⁰ are identical or different and are R⁸, R¹¹, -C(W)R⁸, -C(W)OR⁸,

- -C(W)SR⁸, -C(W)NR⁸₂, -OC(W)R⁸, -OC(W)OR⁸, -OC(W)SR⁸, -OC(W)NR⁸₂,
- $-SC(W)R^8, -SC(W)OR^8, -SC(W)SR^8, -SC(W)NR^8{}_2, -NR^8C(W)R^8, \\$
- -N[C(W)R⁸]₂, -NR⁸C(W)OR⁸, -NR⁸C(W)SR⁸, -C(W)NR⁸-NR⁸₂,
- -C(W)NR8-NR8[C(W)R8], -NR8-C(W)NR82, -NR8-NR8C(W)R8,
- $-NR^8-N[C(W)R^8]_2, \ -N[(CW)R^8]-NR^8_2, \ -NR^8[(CW)NR^8_2], \ -NR^8(C=NR^8)R^8,$
- -NR8(C=NR8)NR82, -O-NR82, -O-NR8(CW)R8, -SO2NR82, -NR8SO2R8,
- -SO₂OR⁸, -OSO₂R⁸, -OR⁸, -NR⁸₂, -SR⁸, -SiR⁸₃, -PR⁸₂, -P(W)R⁸₂, -SOR⁸,
- 30 $-SO_2R^8$, $-PWR^8_2$ or $-PW(OR^8)_2$;

or two radicals R^{10} together are (W), (=N-R⁸), (=CR₂⁸), (=CHR⁸), or (=CH₂); W and R^8 are as defined in claim 1,

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the radicals R<sup>11</sup> are identical or different and are halogen, cyano, nitro, hydroxyl,
                           thio, amino, formyl, (C_1-C_6)-alkanoyl, (C_1-C_6)-alkoxy, (C_3-C_6)-alkenyloxy,
                           (C_3-C_6)-alkynyloxy, (C_1-C_6)-haloalkyloxy, (C_3-C_6)-haloalkenyloxy,
                           (C<sub>3</sub>-C<sub>6</sub>)-haloalkynyloxy, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkoxy, (C<sub>4</sub>-C<sub>8</sub>)-cycloalkenyloxy,
   5
                           (C<sub>3</sub>-C<sub>8</sub>)-halocycloalkoxy, (C<sub>4</sub>-C<sub>8</sub>)-halocycloalkenyloxy,
                           (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkoxy, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkoxy,
                           (C_3 - C_8)-cycloalkyl-(C_2 - C_4)-alkenyloxy, (C_4 - C_8)-cycloalkenyl-(C_2 - C_4)-alkenyloxy,
                           (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkoxy, (C_2-C_6)-alkenyl-(C_3-C_8)-cycloalkoxy,
                           (C_2-C_6)-alkynyl-(C_3-C_8)-cycloalkoxy, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenyloxy,
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                           (C_2-C_6)-alkenyl-(C_4-C_8)-cycloalkenyloxy, (C_1-C_4)-alkoxy-(C_1-C_6)-alkoxy,
                           (C_1-C_4)-alkoxy-(C_3-C_6)-alkenyloxy, carbamoyl, (C_1-C_6)-mono- or
                           dialkylcarbamoyl, (C<sub>1</sub>-C<sub>6</sub>)-mono- or dihaloalkylcarbamoyl, (C<sub>3</sub>-C<sub>8</sub>)-mono- or
                           dicycloalkylcarbamoyl, (C_1-C_6)-alkoxycarbonyl, (C_3-C_8)-cycloalkoxycarbonyl,
                           (C_1-C_6)-alkanoyloxy, (C_3-C_8)-cycloalkanoyloxy, (C_1-C_6)-haloalkoxycarbonyl,
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                           (C_1-C_6)-haloalkanoyloxy, (C_1-C_6)-alkanamido, (C_1-C_6)-haloalkanamido,
                           (C<sub>2</sub>-C<sub>6</sub>)-alkenamido, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkanamido,
                           (C_3-C_8)-cycloalkyl-(C_1-C_4)-alkanamido, (C_1-C_6)-alkylthio, (C_3-C_6)-alkenylthio,
                           (C_3-C_6)-alkynylthio, (C_1-C_6)-haloalkylthio, (C_3-C_6)-haloalkenylthio,
                           (C_3-C_6)-haloalkynylthio, (C_3-C_8)-cycloalkylthio, (C_4-C_8)-cycloalkenylthio,
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                           (C_3 - C_8)-halocycloalkthio, (C_4 - C_8)-halocycloalkenylthio, (C_3 - C_8)-cycloalkyl-
                           (C_1-C_4)-alkylthio, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylthio, (C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloalkyl-(C_3-C_8)-cycloal
                          C_4)-alkenylthio, (C_4-C_8)-cycloalkenyl-(C_3-C_4)-alkenylthio, (C_1-C_6)-alkyl-(C_3-C_8)-
                           cycloalkylthio, (C<sub>2</sub>-C<sub>6</sub>)-alkenyl-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkylthio, (C<sub>2</sub>-C<sub>6</sub>)-alkynyl-(C<sub>3</sub>-C<sub>8</sub>)-
                           cycloalkylthio, (C_1-C_6)-alkyl-(C_4-C_8)-cycloalkenylthio, (C_2-C_6)-alkenyl-(C_4-C_8)-
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                          cycloalkenylthio, (C<sub>1</sub>-C<sub>6</sub>)-alkylsulfinyl, (C<sub>3</sub>-C<sub>6</sub>)-alkenylsulfinyl, (C<sub>3</sub>-C<sub>6</sub>)-
                          alkynylsulfinyl, (C<sub>1</sub>-C<sub>6</sub>)-haloalkylsulfinyl, (C<sub>3</sub>-C<sub>6</sub>)-haloalkenylsulfinyl, (C<sub>3</sub>-C<sub>6</sub>)-
                          haloalkynylsulfinyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkylsulfinyl, (C<sub>4</sub>-C<sub>8</sub>)-cycloalkenylsulfinyl, (C<sub>3</sub>-
                          C<sub>8</sub>)-halocycloalkylsulfinyl, (C<sub>4</sub>-C<sub>8</sub>)-halocycloalkenylsulfinyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl-
                          (C_1-C_4)-alkylsulfinyl, (C_4-C_8)-cycloalkenyl-(C_1-C_4)-alkylsulfinyl, (C_3-C_8)-
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                          cycloalkyl-(C_3-C_4)-alkenylsulfinyl, (C_4-C_8)-cycloalkenyl-(C_3-C_4)-alkenylsulfinyl,
                          (C_1-C_6)-alkyl-(C_3-C_8)-cycloalkylsulfinyl, (C_2-C_6)-alkenyl-(C_3-C_8)-
                          cycloalkylsulfinyl, (C<sub>2</sub>-C<sub>6</sub>)-alkynyl-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkylsulfinyl, (C<sub>1</sub>-C<sub>6</sub>)-alkyl-
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 (C_4-C_8) -cycloalkenylsulfinyl, (C_2-C_6) -alkenyl- (C_4-C_8) -cycloalkenylsulfinyl, (C_1-C_6) -alkylsulfonyl, (C_3-C_6) -alkenylsulfonyl, (C_3-C_6) -alkynylsulfonyl, (C_1-C_6) haloalkylsulfonyl, (C₃-C₆)-haloalkenylsulfonyl, (C₃-C₆)-haloalkynylsulfonyl, (C₃- C_8)-cycloalkylsulfonyl, (C_4-C_8) -cycloalkenylsulfonyl, (C_3-C_8) -5 halocycloalkylsulfonyl, (C₄-C₈)-halocycloalkenylsulfonyl, (C₃-C₈)-cycloalkyl- (C_1-C_4) -alkylsulfonyl, (C_4-C_8) -cycloalkenyl- (C_1-C_4) -alkylsulfonyl, (C_3-C_8) cycloalkyl-(C₃-C₄)-alkenylsulfonyl, (C₄-C₈)-cycloalkenyl-(C₃-C₄)-alkenylsulfonyl. (C_1-C_6) -alkyl- (C_3-C_8) -cycloalkylsulfonyl, (C_2-C_6) -alkenyl- (C_3-C_8) -cycloalkylsulfonyl, (C2-C6)-alkynyl-(C3-C8)-cycloalkylsulfonyl, (C1-C6)-alkyl-(C4-C8)-10 cycloalkenylsulfonyl, (C₂-C₆)-alkenyl-(C₄-C₈)-cycloalkenylsulfonyl, (C₁-C₆)dialkylamino, (C_1-C_6) -alkylamino, (C_3-C_6) -alkenylamino, (C_3-C_6) -alkynylamino, (C_2-C_6) -haloalkylamino, (C_3-C_6) -haloalkenylamino, (C_3-C_6) -haloalkynylamino, (C₃-C₈)-cycloalkylamino, (C₄-C₈)-cycloalkenylamino, (C₃-C₈)-halocycloalkamino, (C₄-C₈)-halocycloalkenylamino, (C₃-C₈)-cycloalkyl-(C₁-C₄)-15 alkylamino, (C₄-C₈)-cycloalkenyl-(C₁-C₄)-alkylamino, (C₃-C₈)-cycloalkyl-(C₃- C_4)-alkenylamino, (C_4 - C_8)-cycloalkenyl-(C_3 - C_4)-alkenylamino, (C_1 - C_6)-alkyl-(C₃-C₈)-cycloalkylamino, (C₂-C₆)-alkenyl-(C₃-C₈)-cycloalkylamino, (C₂- C_6)-alkynyl-(C_3 - C_8)-cycloalkylamino, (C_1 - C_6)-alkyl-(C_4 - C_8)-cycloalkenylamino, (C_2-C_6) -alkenyl- (C_4-C_8) -cycloalkenylamino, (C_1-C_6) -trialkylsilyl, aryl, aryloxy, 20 arylthio, arylamino, aryl- (C_1-C_4) -alkoxy, aryl- (C_3-C_4) -alkenyloxy, aryl- (C_1-C_4) alkylthio, aryl- (C_2-C_4) -alkenylthio, aryl- (C_1-C_4) -alkylamino, aryl- (C_3-C_4) alkenylamino, aryl-(C₁-C₆)-dialkylsilyl, diaryl-(C₁-C₆)-alkylsilyl, triarylsilyl and 5or 6-membered heterocyclyl, where the cyclic moiety of the 14 last-mentioned radicals is optionally substituted by one or more radicals from the group 25 consisting of halogen, cyano, nitro, amino, hydroxyl, thio, (C₁-C₄)-alkyl, (C_1-C_4) -haloalkyl, (C_3-C_8) -cycloalkyl, (C_1-C_4) -alkoxy, (C_1-C_4) -haloalkoxy, (C_1-C_4) -alkylthio, (C_1-C_4) -haloalkylthio, (C_1-C_4) -alkylamino, (C_1-C_4) -haloalkylamino, formyl and (C_1-C_4) -alkanoyl.

30 13. A process for preparing compounds of the formula (I) as claimed in claim 1, which comprises reacting activated carboxylic acid derivatives of the formula (II) with

hydroxylamine derivatives of the formula (III), where R¹, R², R³, R⁴, R⁵, X, Y and n are as defined in claim 1

$$R^{1}$$
 R^{2}
 R^{3}
 R^{4}
 R^{5}
 R^{5}

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14. A process for preparing compounds of the formula (I) as claimed in claim 1

$$\mathbb{R}^3$$
 \mathbb{R}^3
 \mathbb{R}^2
 \mathbb{R}^4
 \mathbb{R}^5
 \mathbb{R}^5
 \mathbb{R}^5

where R¹, R², R³, R⁴, R⁵, X, Y and n are as defined in claim 1 and at least one of the radicals R⁴ or R⁵ is -C(W)R⁸, -C(W)OR⁸, -C(W)SR⁸, -C(W)NR⁸₂, -C(W)NR⁸-NR⁸₂, -C(W)NR⁸-NR⁸[C(W)R⁸], -SO₂NR⁸₂, -SO₂OR⁸, -S(O)R⁸, -S(O)₂R⁸, -PWR⁸₂ or -PW(OR⁸)₂, which comprises reacting a compound of the formula (I) where R⁴ and R⁵ are hydrogen with a compound of the formula (IV),

where Hal is a halogen atom and R¹² is a radical selected from the group consisting of -C(W)R⁸, -C(W)OR⁸, -C(W)SR⁸, -C(W)NR⁸₂, -C(W)NR⁸-NR⁸₂, -C(W)NR⁸-NR⁸[C(W)R⁸], -SO₂NR⁸₂, -SO₂OR⁸, -S(O)R⁸, -S(O)₂R⁸, -PWR⁸₂ and -PW(OR⁸)₂, where W and R⁸ have the meaning defined in claim 1.

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- 15. A composition having insecticidal, acaricidal, ixodicidal, nematicidal and/or molluscidal action, which comprises at least one compound of the formula (I) or a salt thereof as claimed in claim 1.
- 16. The composition as claimed in claim 15, which comprises a further active compound from the group of the acaricides, fungicides, herbicides, insecticides, nematicides or growth-regulating substances.
- 15 17. A method for controlling, deterring or repelling pests including nuisance pests of plants, which comprises treating the plants and/or pests/nuisance pests with an effective amount of a compound of formula (I) or a salt thereof as claimed in claim 1.
 - 18. The method as claimed in claim 17 where the plant is a transgenic crop plant.
 - 19. The use of the compound of the formula (I) or a salt thereof as claimed in claim 1 for controlling, deterring or repelling pests including nuisance pests of plants.
- 20. The use of the compound of the formula (I) or a salt thereof as claimed in claim 1 for preparing a medicament for controlling endo- and ectoparasites.